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ME08_6

```
Administrator: Command Prompt

Microsoft Windows [Version 10.0.19042.985]
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C:\WINDOWS\system32>docker network ls
NETWORK ID      NAME        DRIVER      SCOPE
875372225eff    bridge      bridge      local
680c9ed674e9    host        host        local
7c29b8184f4c    none        null        local

C:\WINDOWS\system32>docker network inspect bridge
[
    {
        "Name": "bridge",
        "Id": "875372225efff45c595cfaeafae6e1f4dba9212bb631e7bf8cdb17f1cde1eb1e",
        "Created": "2021-05-19T13:12:24.5441475Z",
        "Scope": "local",
        "Driver": "bridge",
        "EnableIPv6": false,
        "IPAM": {
            "Driver": "default",
            "Options": null,
            "Config": [
                {
                    "Subnet": "172.17.0.0/16",
                    "Gateway": "172.17.0.1"
                }
            ]
        },
        "Internal": false,
        "Attachable": false,
        "Ingress": false,
        "ConfigFrom": {
            "Network": ""
        },
        "ConfigOnly": false,
        "Containers": {},
        "Options": {
            "com.docker.network.bridge.default_bridge": "true",
            "com.docker.network.bridge.enable_icc": "true",
            "com.docker.network.bridge.enable_ip_masquerade": "true",
            "com.docker.network.bridge.host_binding_ipv4": "0.0.0.0",
            "com.docker.network.bridge.name": "docker0",
            "com.docker.network.driver.mtu": "1500"
        },
        "Labels": {}
    }
]

C:\WINDOWS\system32>
```

```
C:\WINDOWS\system32>docker run --rm -d --name dummy delner/ping:1.0
Unable to find image 'delner/ping:1.0' locally
docker: Error response from daemon: pull access denied for delner/ping, repository does not exist or may require 'docker login': denied: requested access to the resource is denied.
See 'docker run --help'.

C:\WINDOWS\system32>docker run --rm -d --name dummy ampersandrei/ping:1.0
2c5778acab4d42aca7db520c96ba1924381da1013fc3f5eac9b769530c939e4f

C:\WINDOWS\system32>docker network inspect bridge
[
    {
        "Name": "bridge",
        "Id": "875372225efff45c595cfaeafae6e1f4dba9212bb631e7bf8cdb17f1cde1eb1e",
        "Created": "2021-05-19T13:12:24.5441475Z",
        "Scope": "local",
        "Driver": "bridge",
        "EnableIPv6": false,
        "IPAM": {
            "Driver": "default",
            "Options": null,
            "Config": [
                {
                    "Subnet": "172.17.0.0/16",
                    "Gateway": "172.17.0.1"
                }
            ]
        },
        "Internal": false,
        "Attachable": false,
        "Ingress": false,
        "ConfigFrom": {
            "Network": ""
        },
        "ConfigOnly": false,
        "Containers": {
            "2c5778acab4d42aca7db520c96ba1924381da1013fc3f5eac9b769530c939e4f": {
                "Name": "dummy",
                "EndpointID": "1fd96fe420bc67bbca6ea8f1844be68f4a9b8231f4dc3c277e978fffa9ae3128",
                "MacAddress": "02:42:ac:11:00:02",
                "IPv4Address": "172.17.0.2/16",
                "IPv6Address": ""
            }
        },
        "Options": {
            "com.docker.network.bridge.default_bridge": "true",
            "com.docker.network.bridge.enable_icc": "true",
            "com.docker.network.bridge.enable_ip_masquerade": "true",
            "com.docker.network.bridge.host_binding_ipv4": "0.0.0.0",
            "com.docker.network.bridge.name": "docker0",
            "com.docker.network.driver.mtu": "1500"
        },
        "Labels": {}
    }
]

C:\WINDOWS\system32>
```

```
C:\WINDOWS\system32>docker run --rm -d -e PING_TARGET=172.17.0.2 --name pinger ampersandrei/ping:1.0
1dc275b848771873befdf1f0cd84de053ddfe93141f8f8d2c37a9d6f69b1bbb7

C:\WINDOWS\system32>docker ps
CONTAINER ID   IMAGE                  COMMAND             CREATED          STATUS             PORTS     NAMES
1dc275b84877   ampersandrei/ping:1.0  "sh -c 'ping $PING_T…"  7 seconds ago    Up 5 seconds                 pinge
r
2c5778acab4d   ampersandrei/ping:1.0  "sh -c 'ping $PING_T…"  About a minute ago  Up About a minute            dummy

C:\WINDOWS\system32>docker logs pinger
PING 172.17.0.2 (172.17.0.2) 56(84) bytes of data.
64 bytes from 172.17.0.2: icmp_seq=1 ttl=64 time=0.054 ms
64 bytes from 172.17.0.2: icmp_seq=2 ttl=64 time=0.040 ms
64 bytes from 172.17.0.2: icmp_seq=3 ttl=64 time=0.086 ms
64 bytes from 172.17.0.2: icmp_seq=4 ttl=64 time=0.094 ms
64 bytes from 172.17.0.2: icmp_seq=5 ttl=64 time=0.130 ms
64 bytes from 172.17.0.2: icmp_seq=6 ttl=64 time=0.039 ms
64 bytes from 172.17.0.2: icmp_seq=7 ttl=64 time=0.138 ms
64 bytes from 172.17.0.2: icmp_seq=8 ttl=64 time=0.119 ms
64 bytes from 172.17.0.2: icmp_seq=9 ttl=64 time=0.118 ms
64 bytes from 172.17.0.2: icmp_seq=10 ttl=64 time=0.142 ms
64 bytes from 172.17.0.2: icmp_seq=11 ttl=64 time=0.122 ms
64 bytes from 172.17.0.2: icmp_seq=12 ttl=64 time=0.140 ms

C:\WINDOWS\system32>
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```
C:\WINDOWS\system32>docker stop pinger
pinger

C:\WINDOWS\system32>docker run --rm -d -e PING_TARGET=dummy --name pinger ampersandrei/ping:1.0
e281ca240a2844046f73520572cc28d33abb57efeb505636cf1d05f6dde152a8

C:\WINDOWS\system32>docker ps
CONTAINER ID   IMAGE                  COMMAND             CREATED          STATUS          PORTS     NAMES
2c5778acab4d   ampersandrei/ping:1.0  "sh -c 'ping $PING_T…"  4 minutes ago    Up 4 minutes              dummy

C:\WINDOWS\system32>docker stop dummy
dummy
```

```
C:\WINDOWS\system32>docker network create skynet
e677b649a5d0ed8f1f3e0fd4613d312071c93b1d78a5efa01b268e1646caf25e

C:\WINDOWS\system32>docker network ls
NETWORK ID      NAME       DRIVER     SCOPE
875372225eff    bridge     bridge     local
680c9ed674e9    host       host       local
7c29b8184f4c    none       null       local
e677b649a5d0    skynet     bridge     local

C:\WINDOWS\system32>docker network inspect skynet
[
    {
        "Name": "skynet",
        "Id": "e677b649a5d0ed8f1f3e0fd4613d312071c93b1d78a5efa01b268e1646caf25e",
        "Created": "2021-05-19T15:36:26.0572991Z",
        "Scope": "local",
        "Driver": "bridge",
        "EnableIPv6": false,
        "IPAM": {
            "Driver": "default",
            "Options": {},
            "Config": [
                {
                    "Subnet": "172.18.0.0/16",
                    "Gateway": "172.18.0.1"
                }
            ]
        },
        "Internal": false,
        "Attachable": false,
        "Ingress": false,
        "ConfigFrom": {
            "Network": ""
        },
        "ConfigOnly": false,
        "Containers": {},
        "Options": {},
        "Labels": {}
    }
]

C:\WINDOWS\system32>
```

```
C:\WINDOWS\system32>docker run --rm -d --network skynet --name dummy ampersandrei/ping:1.0
b40ea790cc258891e8829f71cadf8b42bb83e4361206eb33784a3b7a421777e9

C:\WINDOWS\system32>docker run --rm -d --network skynet -e PING_TARGET=dummy --name pinger ampersandrei/ping:1.0
83ebcb3cce29c3d7c4b807c3f8b6165f14b0e0e4051f25354070e224538280f5

C:\WINDOWS\system32>docker logs pinger
PING dummy (172.18.0.2) 56(84) bytes of data.
64 bytes from dummy.skynet (172.18.0.2): icmp_seq=1 ttl=64 time=0.063 ms
64 bytes from dummy.skynet (172.18.0.2): icmp_seq=2 ttl=64 time=0.072 ms
64 bytes from dummy.skynet (172.18.0.2): icmp_seq=3 ttl=64 time=0.101 ms
64 bytes from dummy.skynet (172.18.0.2): icmp_seq=4 ttl=64 time=0.108 ms
64 bytes from dummy.skynet (172.18.0.2): icmp_seq=5 ttl=64 time=0.146 ms
64 bytes from dummy.skynet (172.18.0.2): icmp_seq=6 ttl=64 time=0.149 ms
64 bytes from dummy.skynet (172.18.0.2): icmp_seq=7 ttl=64 time=0.145 ms
64 bytes from dummy.skynet (172.18.0.2): icmp_seq=8 ttl=64 time=0.147 ms
64 bytes from dummy.skynet (172.18.0.2): icmp_seq=9 ttl=64 time=0.124 ms

C:\WINDOWS\system32>
```

```
C:\WINDOWS\system32>docker stop pinger
pinger

C:\WINDOWS\system32>docker stop dummy
dummy
```
```
C:\WINDOWS\system32>docker run --rm -d --name widgetdb -e POSTGRES_PASSWORD=password --network skynet -p 5432 postgres
71ef02a398e5f156068717086677fbcde692cf2ad78c6ffab49b4be8889a99cc

C:\WINDOWS\system32>docker run --rm -d --name gadgetdb -e POSTGRES_PASSWORD=password --network skynet -p 5432 postgres
3f7de0207c14ea2d53f24ebce8f7526e0180b2eb58d8890bd83d8344d0521175

C:\WINDOWS\system32>docker ps
CONTAINER ID   IMAGE      COMMAND               CREATED          STATUS          PORTS                    NAMES
3f7de0207c14   postgres   "docker-entrypoint.s…"  7 seconds ago    Up 5 seconds    0.0.0.0:51592->5432/tcp  gadgetdb
71ef02a398e5   postgres   "docker-entrypoint.s…"  24 seconds ago   Up 22 seconds   0.0.0.0:51591->5432/tcp  widgetdb

C:\WINDOWS\system32>docker exec -it widgetdb /bin/bash
root@71ef02a398e5:/# psql -U postgres
psql (13.3 (Debian 13.3-1.pgdg100+1))
Type "help" for help.

postgres=# \q
root@71ef02a398e5:/# psql -U postgres -h gadgetdb
Password for user postgres:
psql (13.3 (Debian 13.3-1.pgdg100+1))
Type "help" for help.

postgres=# \q
root@71ef02a398e5:/# exit
exit

C:\WINDOWS\system32>docker stop widgetdb gadgetdb
widgetdb
gadgetdb

C:\WINDOWS\system32>_
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```
C:\WINDOWS\system32>docker run --rm -d --name widgetdb -e POSTGRES_PASSWORD=password --network skynet -p 5432:5432 postgres
795d905d0c4b0e15e0720006670433c4293c5c2040eb7ced2efc9cbda3feb57f

C:\WINDOWS\system32>docker ps
CONTAINER ID   IMAGE      COMMAND               CREATED         STATUS        PORTS                                      NAMES
795d905d0c4b   postgres   "docker-entrypoint.s…"  3 seconds ago   Up 1 second   0.0.0.0:5432->5432/tcp, :::5432->5432/tcp  widgetdb

C:\WINDOWS\system32>docker exec -it widgetdb /bin/bash
root@795d905d0c4b:/# psql -U postgres -h localhost
psql (13.3 (Debian 13.3-1.pgdg100+1))
Type "help" for help.

postgres=# \q
root@795d905d0c4b:/# exit
exit

C:\WINDOWS\system32>docker stop widgetdb
widgetdb
```